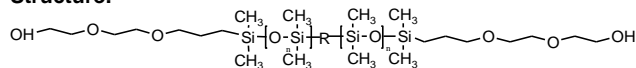


## Sample Name:

$\alpha,\omega$ -dicarbinol Terminated Polydimethylsiloxane

Sample #: P8363-DMS2OH

### Structure:

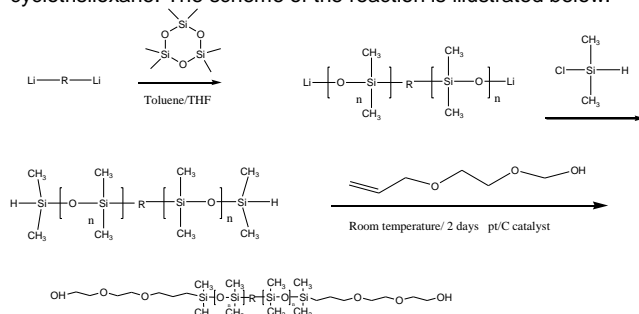


### Composition:

$M_n \times 10^3$	PDI
4.0	1.5

### Synthesis Procedure:

Dihydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane. The scheme of the reaction is illustrated below:

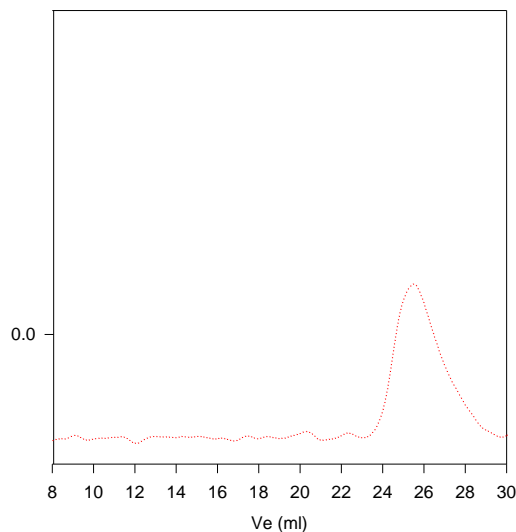


### Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

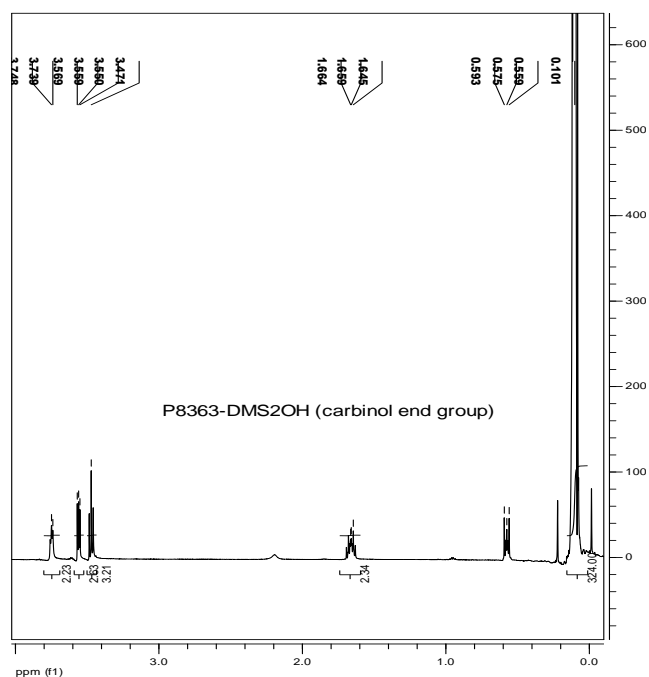
## SEC of Sample:

P8363-DMS2OH (carbinol end group)



..... Polydimethylsiloxane  $M_n=4000$ ,  $M_w=6000$ ,  $PI=1.5$

## HNMR of the Polymer:



## Reference:

1. J.X. Zhang, S.K. Varshney, "Simple Approach for the Scale-up Production of Block Copolymer of Polydimethylsiloxane with (Meth)acrylic Ester Monomers" Designed Monomers and Polymers, 2002, 1, 79.